With rapid penetration of wireless access and information processing technologies changing the way that vehicle users communicate, significant research efforts have been aimed at improving vehicle safety and on-demand information access. Much recent research has been directed at seamless networking technology to effectively utilize heterogeneous communication media for vehicle users, and ad hoc networking technology for vehicle-to-vehicle and vehicle-with-infrastructure communications. To transition the current technical and experimental results into cost-effective and deployable solutions, considerable R&D and standardization efforts are still required. In this talk, I will start with example vehicle safety networking applications and associated technical challenges. I will then outline some of the current technical approaches and open technical issues, and discuss their potential impacts on vehicle networking.

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**Brief BIOGRAPHY**

Wai Chen received his B.Sc. degree from Zhejiang University, M.Sc., M.Phil., and Ph.D. degrees from Columbia University. He is with the Applied Research at Telcordia Technologies. Currently, he is leading a multiyear research project to develop networking technologies to support vehicle safety and information access. He has also been principal investigator for several government projects, including an ARL-funded network management of mobile ad hoc networks project since 2001.